

**Abstract:**

An ink jet printhead chip includes a substrate. A plurality of nozzle arrangements is positioned  
5 on the substrate. Each nozzle arrangement includes a nozzle chamber and an ink ejection port  
in fluid communication with the nozzle chamber. An actuator is connected to the substrate and  
is displaceable with respect to the substrate. An ink ejection mechanism is connected to the  
actuator and is operatively arranged with respect to the nozzle chamber to eject ink from the  
ink ejection port on displacement of the actuator. The actuator has an actuating arm that has  
10 active beams that are configured to be displaced upon receipt of the control signal. The active  
beams are spaced from corresponding passive beams in a plane that spans the substrate. The  
spacing is greater than one percent of a length of the actuating arm and less than twenty percent  
of the length of the actuating arm.

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